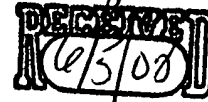


**Official**

Sub A17

connected to power supply 85 by connection 84. A preferred power supply is a universal-input (40-400Hz, 90-270V AC RMS) switch mode lead/acid battery float charger with a current-limited output of nominally 13.8 V, and provides charging current to battery pack 90 as represented by connection 86. A preferred battery is a 12 volt DC, 2.5A gel cell (lead-acid) battery, and preferably battery pack 90 comprises two such batteries housed within the ISH.

[0023] The power supply is plugged into a standard electrical outlet 87 and serves as the primary power source for the ISH. In the event of a power failure to the electrical outlet, the ISH operates under backup power provided by its battery pack 90 and basic telephone services remain available to the customer for emergency calls.

[0024] The controllers illustrated as being part of the CPU 50 are actually software stored as configuration files in RAM and as binary code in flash memory 54. Flash memory 54 includes two partitions, labeled A and B in Figure 1 and also referred to as Flash A and Flash B, which are reserved for the binary code. At the time of manufacture of the ISH, its final installation location and configuration are not known and therefore the required configuration files and binary code cannot be known. Instead, the ISH is manufactured with a basic binary code stored in Flash A 54 to perform an automatic downloading of configuration files and binary code according to the steps illustrated in Figure 2. Upon initial startup of the system, that original binary code is read from Flash A 54 into RAM for operation of CPU 50.